Protecting cultural heritage

Saving the past to preserve the future

Peer Learning Workshop

06 APRIL '22

to strengthen the cooperation between SHELTER, ARCH and HYPERION with the aim of easing the exchange of knowledge and best practice to build Cultural Heritage resilience

Shelter

shelter-project.com

PILOT SITES

Ravenna Pilot Case

The Church of Santa Croce, built in the 5th century, and the surrounding archaeological site are situated in the city centre of Ravenna, inscribed as UNESCO cultural property in 1996.

Challenge

The mosaics of the floor are exposed to outdoor climatic threats and the whole area suffers from the subsidence phenomena (level 1 to 1.5 m. below the original one), characteristic of the entire subsoil of the city.

Innovative solution

SHELTER is testing an innovative system of water pumps, powered by solar energy and complemented by a preventive alarm system led by sensors, that mitigate flooding and subsidence events.

Seferihisar Pilot Case

Seferihisar Sığacık is a living region, located in the province of Izmir. Its municipality is characterised by rural areas and a coastal town.

Challenge

The port town of Sığacık is characterised by fortress walls which are in deteriorating condition, vulnerable to earthquakes along with the protected historical building stock, putting the local community in a risky condition.

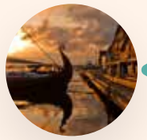
Innovative solution

SHELTER is targeting a roadmap for increasing structural safety and reconstruction techniques for the fortress and for the historic building stock, increasing community measures for disaster.

Hyperion

hyperion-project.eu

PILOT SITES



Tønsberg Pilot Case

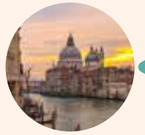
Tønsberg, founded in the Viking-period, is one of Norway's oldest towns dominated by a cliff with steep sides. Although almost destroyed in 1503, its structures and remains from buildings are still preserved.

Challenge

The city needs to be preserved with long term plans for restauration and reconstruction of buildings and monuments.

Innovative solution

HYPERION is developing a high-resolution digital terrain model, based on images and data, for comparison purposes and analysis.



Venice Pilot Case

The City of Venice was inscribed in the UNESCO World Heritage List in 1987, in recognition of its unique historical, archaeological, urban and artistic heritage and exceptional cultural traditions.

Challenge

The main building materials (stone and marble, brick, wood, metal, plaster) of the city are subjected to chemical variations and exogenous physicists.

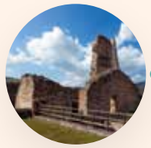
Innovative solution

HYPERION is developing and testing control systems to monitor the deterioration of the city and of its lagoon area.

ARCH SAVING CULTURAL HERITAGE

savingculturalheritage.eu

PILOT SITES



Camerino Pilot Case

Camerino is a small town surrounded by hills and mountains, and features medieval roads as well as ancient walls expanded during the Roman Age. The city adjoins natural areas in the centre of Italy.

Challenge

The Old Town of Camerino suffered severe damages due to a major earthquake in central Italy in 2016. Many buildings were destroyed or seriously damaged, and all residents and businesses were relocated.

Innovative solution

ARCH is adopting an integrated approach, that includes knowledge sharing and tools development to mitigate the impacts of natural hazards on small Old Towns.

Bratislava Pilot Case

Bratislava is the capital city of Slovakia and, is home to architectural and archaeological heritage (including a medieval city center), as well as monuments and nature.

Challenge

The city lacks information about emergency responses and disaster risk management caused by climate change.

Innovative solution

Bratislava is working to improve emergency response and disaster risk management, especially with regard to heat waves, flooding, and erosion exarberated by climate change.

MAIN OUTCOMES

from the interactive session

One word, other than RESILIENCE or CULTURAL HERITAGE, to describe how your project has impacted your city/community?

What challenges (if any) have you faced in community engagement?

- Awareness gap — 74%
- Participation rates in outreach opportunities — 32%
- Conflicting interests — 32%
- Sense of urgency — 11%
- Other — 0%

What challenges (if any) have you faced in engaging with public administration, practitioners, etc.?

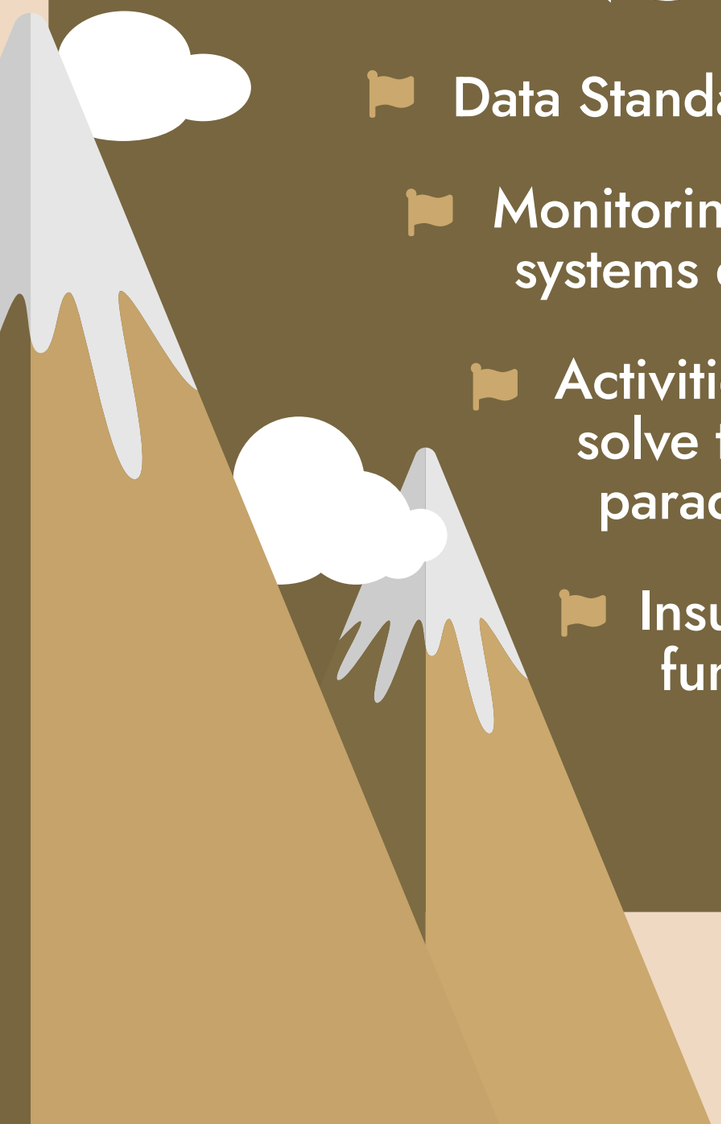
- Prioritization of other interests or issues — 57%
- Availability and time — 52%
- Awareness gaps — 19%
- Working across sectors/departments — 14%
- Other — 0%

PAINS

- Data Standardisation
- Monitoring real-time systems development
- Activities rebalancing to solve the "resilience paradox"
- Insufficient number of funding opportunities

GAINS

- Citizens engagement
- Development of models and tools for the assessment for climate change impact scenarios
- Guidelines linked to cultural heritage to help decision makers
- Open cultural events for different age groups
- Documents digitalisation



SAVE THE DATE:

3rd EU Task Force for Climate Neutral and Resilient Historic Urban Districts

3rd of June 2022 | 09:00-14:00 CEST

during ARCH Stakeholder Dialogues in a hybrid form (Thessaloniki, Greece and online)